Request for City Council Committee Action from the Department of Public Works

Date: July 9, 2013

To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee
Referral: Honorable Betsy Hodges, Chair Ways and Means/Budget Committee

Subject: **Issuance of Request for Proposals for Fridley Filtration Plant Rehabilitation.**

Recommendation:

Authorize proper city officers to issue a Request for Proposal (RFP) for design and construction administration services for the Fridley Filtration Plant Rehabilitation project, which will enhance taste and odor control.

Previous Directives:

- December 12, 2012 – Council adoption of 2013 Capital Budget, including $2,700,000 for WTR24 Fridley Filter Plant Rehabilitation.
- December 14, 2012 – Council adoption of 2012 Capital Budget, including $100,000 for WTR24 Fridley Filter Plant Rehabilitation

Department Information:

Prepared by: Shahin Rezania

Approved by: _____

Steven A. Kotke, P.E., Director of Public Works

Presenters in Committee: Bernie Bullert

Reviews

- Permanent Review Committee (PRC): Approval _Y_ Date ___6/11/2013____
- Civil Rights Approval Approval ___ Date _____
- Policy Review Group (PRG): Approval ___ Date _____

Financial Impact

- No financial impact

Community Impact

- City Goals – Livable Communities, Healthy Lives

Supporting Information

Purpose of RFP

It is the intention of the Public Works Water Distribution and Treatment Services Division to select a consultant partner for the renovation of the conventional Fridley Filtration Plant (FFP) built in 1925. Staff proposes issuance of an RFP to perform a qualifications-based selection of a consulting firm to provide design and construction administration services for the rehabilitation of the FFP.

Fridley Filtration Plant History

The City constructed the FFP in two phases during the 1920s to increase the filtration capacity of its potable water system. The original filters were mono-media sand with a perforated cast iron pipe under drain system. This system was used until the early 1970's when the 10 north filters at the FFP were rebuilt to convert them to dual media (sand and anthracite) with clay tile under drains. Several years later, the 10 south filters were rebuilt to tri-media (high-density stone, sand and anthracite) filters with precast concrete under-drains. During these reconstruction projects, the equipment necessary for filter operation was replaced including under-drain systems, filter media, media support, and some of the control valves. The original water piping, backwash supply system, and gate valves remain in service today. Minneapolis is now facing multiple issues that are driving the need to rehabilitate the filters again.

The City conducted multiple evaluations and studies between 2010 and 2012 to evaluate the existing filter media and under-drain conditions, assess long term water quality goals (in particular with respect to taste and odor control), evaluate technologies to meet those goals, and evaluate operational redundancies needed to meet the desired level of service.

The results of the evaluations and studies enabled definition of the major elements for the rehabilitation of the plant. The City has included this project in the 5 year capital program to ensure reliability and functionality of FFP for the foreseeable future. The program will extend the life of the existing structure, improve filtered water quality and improve system reliability.

The total appropriation to date is $2,800,000 toward an anticipated project cost of $40 million.